MT0808-VF1 User Manual

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

SURGE PROTECTION DEVICE RECOMMENDED

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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Introduction

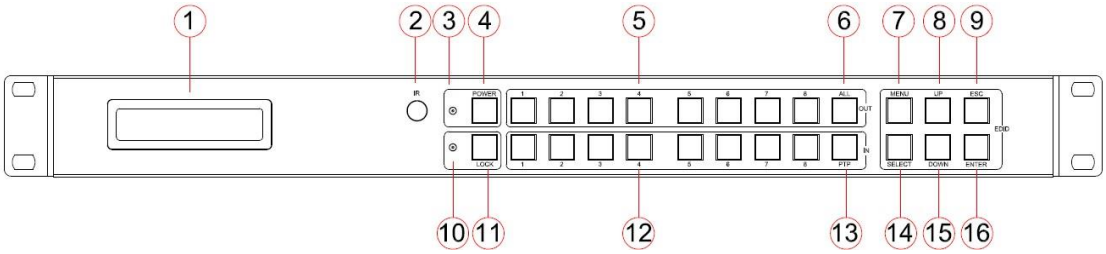
The MT0808-Vf1 HDBaseT 8×8 Matrix for HDMI routes eight Hi-Def sources to any eight HDTV displays, supporting 1080p Full HD up to 4K plus all 3D formats, along with multichannel digital audio formats such as Dolby® True HD and DTS-HD® Master Audio™. Based on HDBaseT chipset inside, the output distance can reach up to 100m over Cat5e/Cat6. Each source can be routed to any display using the front-panel push buttons, IR remote control, RS-232 interface, or via TCP/IP.

Features:

- Supports resolutions up to 1080p@60HZ,48-bit deep color, 4k@30HZ
- HDBaseT chipset inside for the output distance up to 100m in 1080p, and 70m in 4k
- Matrix can power the remote receiver, POc, no power supply needed for remote receivers.
- Allows any source to be displayed on multiple displays at the same time
- Allows any HDMI display to view any HDMI source at any time
- Dolby TrueHD and DTS-HD master audio pass through HDMI output
- Advanced EDID management for rapid integration of sources and displays
- Front-panel LCD display for status feedback
- Multiple switching mode, push-in button, IR remote control, RS-232 control, and TCP/IP control
- Easy installation with rack-mounting ears
- Full 3D pass- through.
- HDCP compliant

Panel Description

Front Panel



1. LCD display---Show the status of input-output selection, EDID info and so on.

2. IR receiver window----Receive the IR from the remote control of MT0808-VF1.

3. Power LED indicator---Indicate the status of the power for the matrix.

4. Power button---Press to power on/off the matrix.

5. HDMI output selection button 1 to 8---Press to select the output from 1 to 8.

6. All button for HDMI outputs---Press to select all of the outputs from 1 to 8.

7. Menu button---Press to enter EDID set mode. Three EDID segments will display on the LCD panel formatted as: INPUT VIDEO AUDIO, for example: IN1 1080P 2.0CH, means to set 1080P 2.0CH EDID to INPUT1. The blinking segment is the one can be changed currently.

Segment content items as below:

INPUT	**VIDEO**	**AUDIO**	Note
IN1	1080I	2.0CH.	
IN2	1080P	5.1CH	
IN3	3D	7.1CH	
IN4	4K2K	NONE	
IN5	D1024		D1024=DVI 1024 x 768
IN6	D1080		D1080=DVI 1920 x 1080
IN7	D1200		D1200=DVI 1920 x 1200
IN8	OUT1		OUT1=Copy OUTPUT1 EDID to INPUTx
ALL	OUT2		ALL=Set EDID to ALL INPUTs OUT2=Copy OUTPUT2 EDID to INPUTx
	OUT3		OUT3=Copy OUTPUT3 EDID to INPUTx
	OUT4		OUT4=Copy OUTPUT4 EDID to INPUTx
	OUT5		OUT5=Copy OUTPUT5 EDID to INPUTx
	OUT6		OUT6=Copy OUTPUT6 EDID to INPUTx
	OUT7		OUT7=Copy OUTPUT7 EDID to INPUTx
	OUT8		OUT8=Copy OUTPUT8 EDID to INPUTx

8. Up selection button--- Press to change segment's value.

9. ESC---Press to quit EDID set mode.

10. Lock LED indicator---Indicate the status of Lock.

11. Lock button---Press to lock the buttons of the front panel.

12. HDMI input selection button 1 to 8---Press to select the input from 1 to 8.

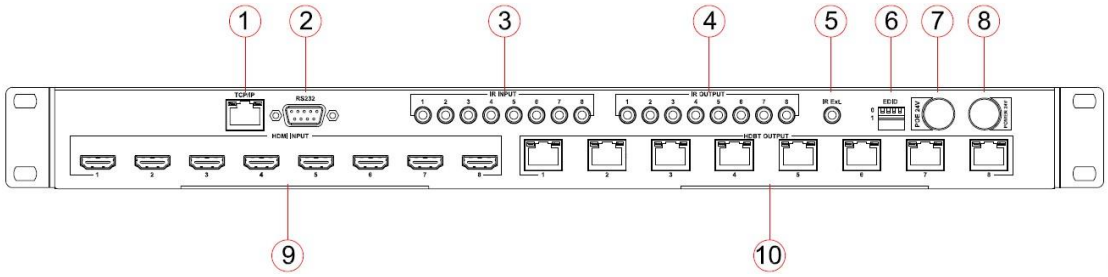
13. PTP button---Press to mirror all inputs and outputs (e.g. output 1 to input1, output 2 to input2 and so on).

14. Selection button---Press to select segment to change setting. Selected segment will be blinking.

15. Down selection button---Press to change segment's value.

16. Enter button--- Press to set EDID to specified INPUT or copy EDID from specified OUTPUT to specified INPUT.

Rear Panel



1. RJ45 ----TCP/IP control

2. RS232 port----Connect to this port for the control of the matrix from a computer

3. IR inputs 1 to 8 ---- 3.5mm stereo phone-jack

4. IR outputs 1 to 8 ---- 3.5mm stereo phone-jack

5. IR extension receiver input ---- 3.5mm stereo phone-jack

6. DIP switch for EDID---1080i/2.0,1080p 3D/2.0,1080p/2.0,1080p/5.1,1080p/7.1, Copy and Use EDID from Display

DIP ON（Down）/OFF（UP） Switching Positions				EDID Type
1	2	3	4	
OFF	OFF	ON	OFF	1080p 3D/2.0
OFF	ON	OFF	OFF	1080p/2.0
OFF	ON	ON	OFF	1080i/2.0
ON	OFF	OFF	OFF	1080p/5.1
ON	OFF	ON	OFF	1080p/7.1
ON	ON	OFF	OFF	4K
OFF	OFF	OFF	OFF	Copy sink EDID

NOTE：The port will only read the DIP switch settings on power-up. The matrix switcher must be powered off and then back on again for it to implement any change of the DIP switch settings.

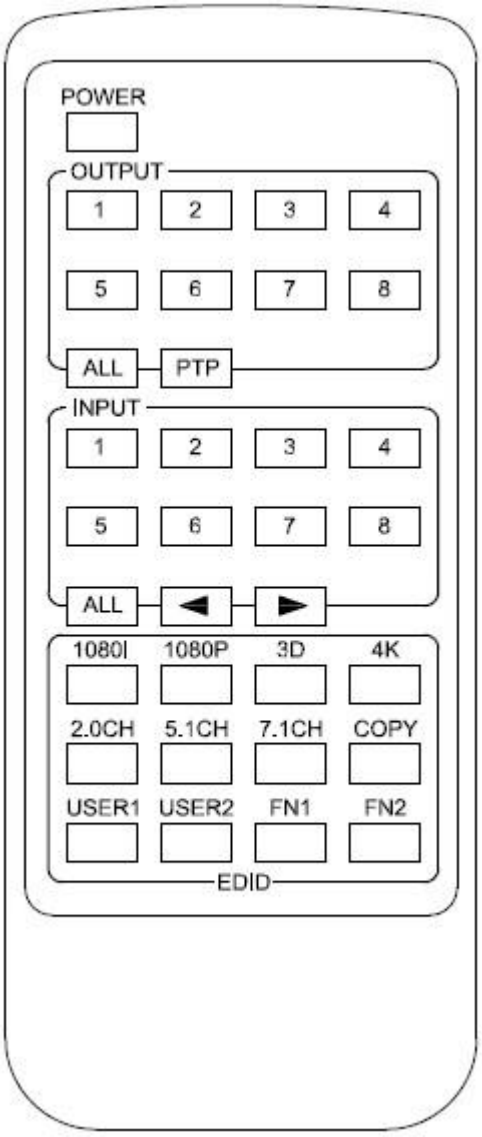
7. POE power port---Use included 24V/6.25A DC adaptor to power the remote receivers.

8. Power port---Use included 12V/6.25A DC adaptor to power the matrix switcher.

9. HDMI inputs 1 to 8----Connect HDMI sources.

10. HDBT outputs 1 to 8----Output for displays.

Remote Control Description



Output and Input select

A. OUTPUT-X select INPUT-Y:

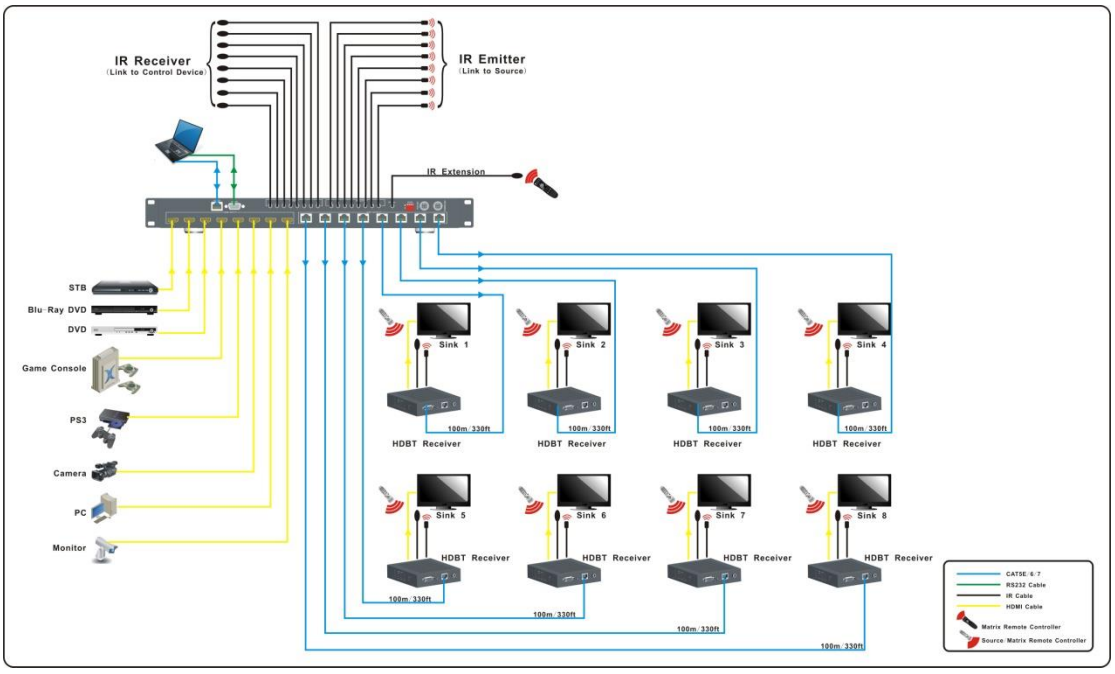
1. Press OUTPUT-X (X means 1 to 8 of outputs)→Press INPUT-Y (Y means 1 to 8 of inputs)
2. Press OUTPUT-X (X means 1 to 8 of outputs)→ press the left and right arrow buttons to select the input.

B. All outputs select INPUT-Y: Press ALL button in zone OUTPUT→Press INPUT-Y button (Y means 1 to 8 of inputs), then INPUT-Y switched to ALL OUTPUTS

C. Mirror all inputs and outputs (Ex. Input 1 to output 1, input 2 to output 2, etc): Press PTP button in Zone OUTPUT

NOTE: EDID Set Up from remote control is not available for MT0808-VF1

Connection Diagram



Specifications

Bandwidth:	2.97Gbps per color
Video Input Connectors:	8x HDMI Type A, 19-pin, female, locking
Video Output Connectors:	8x RJ-45 connector
RS-232 serial port:	DB-9, female
TCP/IP Control:	RJ-45, female
IR Input ports:	9x 3.5mm stereo jack
IR Output ports:	8x 3.5mm stereo jack
Rack-Mountable:	1 U rack height, rack ears included
Dimensions (W x H x D):	428mm x 300mm x 43mm , without feet
Shipping Weight:	2.7kg
Operating Temperature:	32°F to 104°F (0°C to 40°C)
Storage Temperature :	-4°F to 140°F (-20°C to 60°C)
Power Supply:	12V/6.25A DC(main), 24V/6.25A DC(POH)

NOTE: Specifications are subject to change without notice. Weight and dimensions are approximate.

Package Contents

1. 1x MT0808-VF1 Matrix Switcher
2. 8x IR Emitters
3. 9x IR Receivers
4. 1x 12V/6.25A DC power supply for matrix
5. 1x24 V/6.25A DC power supply for receivers, POC
6. 9x Remote Control with Battery
7. 2x Rack mount ears
8. 1x CD for control software

RS-232 Pin Assignment

MT0808-VF1			Remote Control Console	
PIN	Assignment		PIN	Assignment
1	NC		1	NC
2	Tx		2	Rx
3	Rx		3	Tx
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

Baud Rate: 57600 bps

Data Bit: 8-bit

Parity: None

Stop Bit: 1-bit

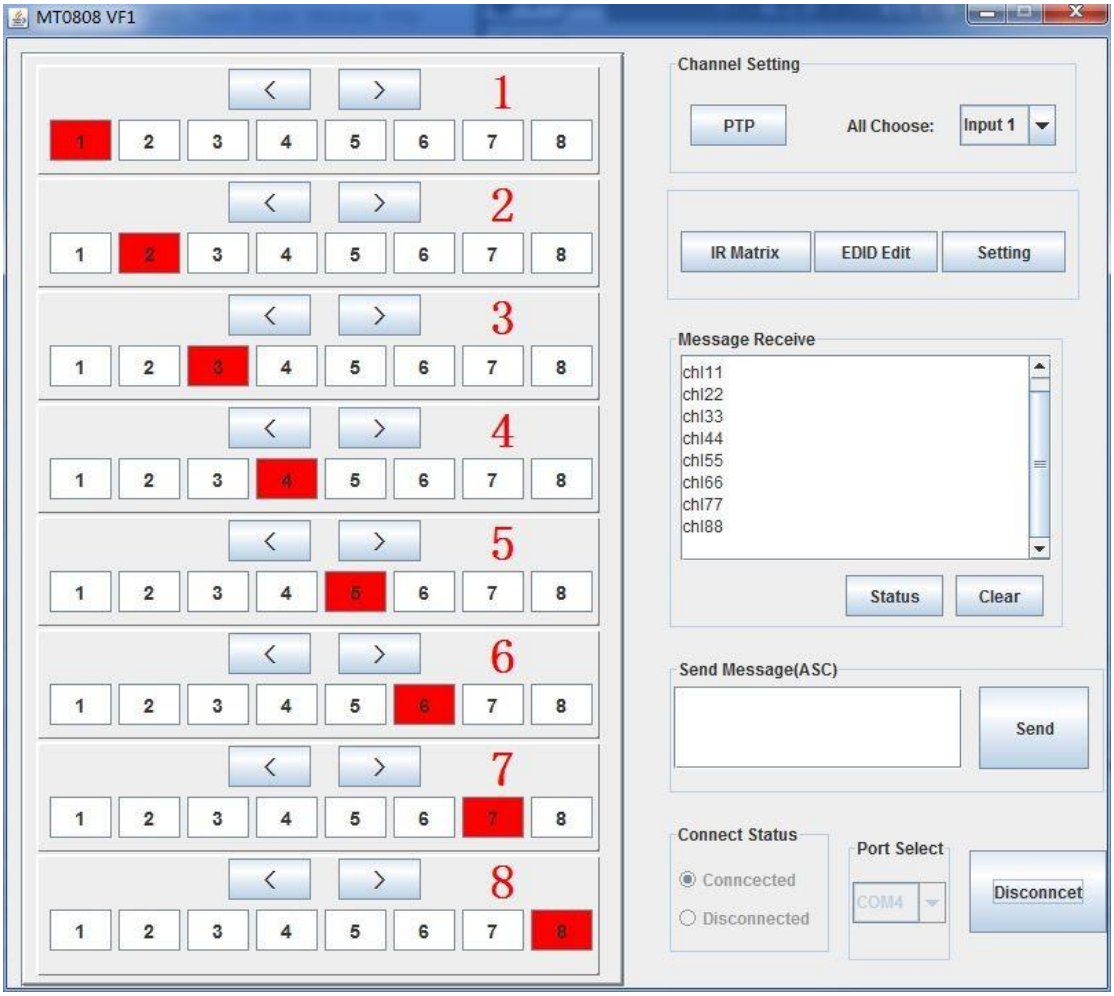
Flow Control: None

RS232 and Telnet Commands in ASCII

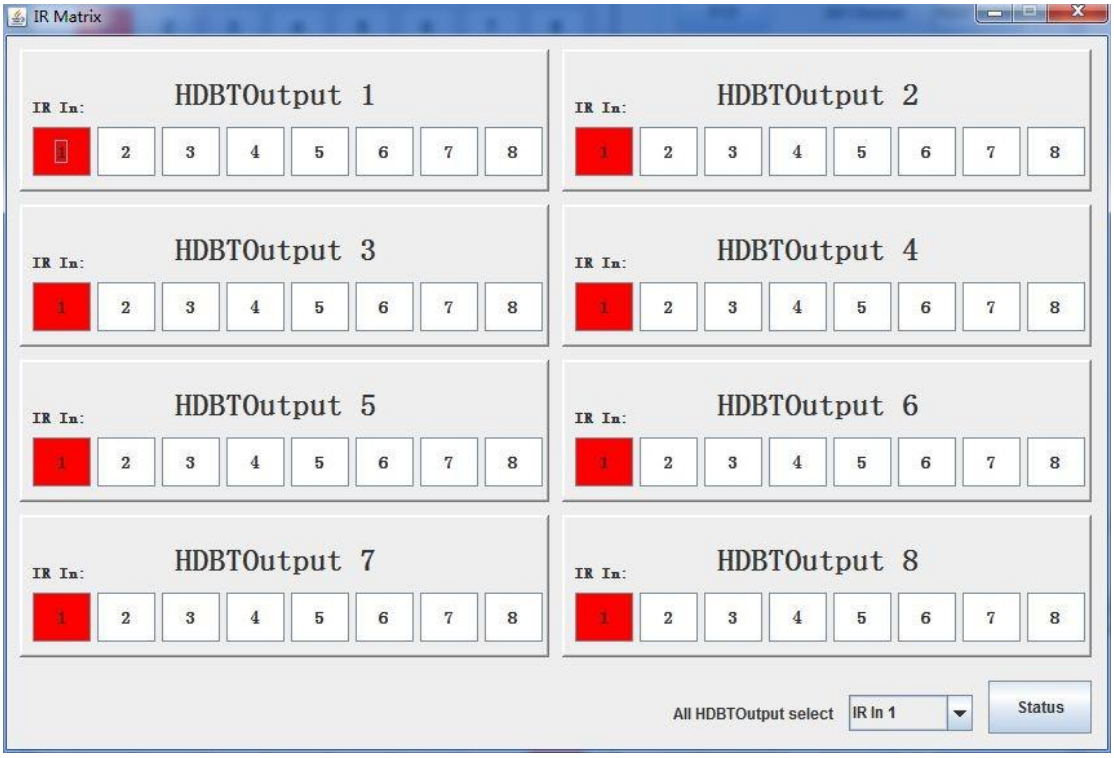
	Commands	Action		Commands	Action
OUTPUT1	cch 00	output1 to input 1	OUTPUT5	cch 40	output 5 to input 1
	cch 01	output1 to input 2		cch 41	output 5 to input 2
	cch 02	output1 to input 3		cch 42	output 5 to input 3
	cch 03	output1 to input 4		cch 43	output 5 to input 4
	cch 04	output1 to input 5		cch 44	output 5 to input 5
	cch 05	output1 to input 6		cch 45	output 5 to input 6
	cch 06	output1 to input 7		cch 46	output 5 to input 7
	cch 07	output1 to input 8		cch 47	output 5 to input 8
OUTPUT2	cch 10	output2 to input 1	OUTPUT6	cch 50	output 6 to input 1
	cch 11	output2 to input 2		cch 51	output 6 to input 2
	cch 12	output2 to input 3		cch 52	output 6 to input 3
	cch 13	output2 to input 4		cch 53	output 6 to input 4
	cch 14	output2 to input 5		cch 54	output 6 to input 5
	cch 15	output2 to input 6		cch 55	output 6 to input 6
	cch 16	output2 to input 7		cch 56	output 6 to input 7
	cch 17	output2 to input 8		cch 57	output 6 to input 8
OUTPUT3	cch 20	output3 to input 1	OUTPUT7	cch 60	output 7 to input 1
	cch 21	output3 to input 2		cch 61	output 7 to input 2
	cch 22	output3 to input 3		cch 62	output 7 to input 3
	cch 23	output3 to input 4		cch 63	output 7 to input 4
	cch 24	output3 to input 5		cch 64	output 7 to input 5
	cch 25	output3 to input 6		cch 65	output 7 to input 6
	cch 26	output3 to input 7		cch 66	output 7 to input 7
	cch 27	output3 to input 8		cch 67	output 7 to input 8
OUTPUT4	cch 30	output 4 to input 1	OUTPUT8	cch 70	output 8 to input 1
	cch 31	output 4 to input 2		cch 71	output 8 to input 2
	cch 32	output 4 to input 3		cch 72	output 8 to input 3
	cch 33	output 4 to input 4		cch 73	output 8 to input 4
	cch 34	output 4 to input 5		cch 74	output 8 to input 5
	cch 35	output 4 to input 6		cch 75	output 8 to input 6
	cch 36	output 4 to input 7		cch 76	output 8 to input 7
	cch 37	output 4 to input 8		cch 77	output 8 to input 8
ALL OUT	cac 0	all ouputs to input 1	OTHERS	ptp	Port-to-Port mode
	cac 1	all ouputs to input 2		pwc	Matrix Power On Or Off
	cac 2	all ouputs to input 3		fdm	Reset to default, run after reboot
	cac 3	all ouputs to input 4			
	cac 4	all ouputs to input 5			
	cac 5	all ouputs to input 6			
	cac 6	all ouputs to input 7			
	cac 7	all ouputs to input 8			

GUI Control

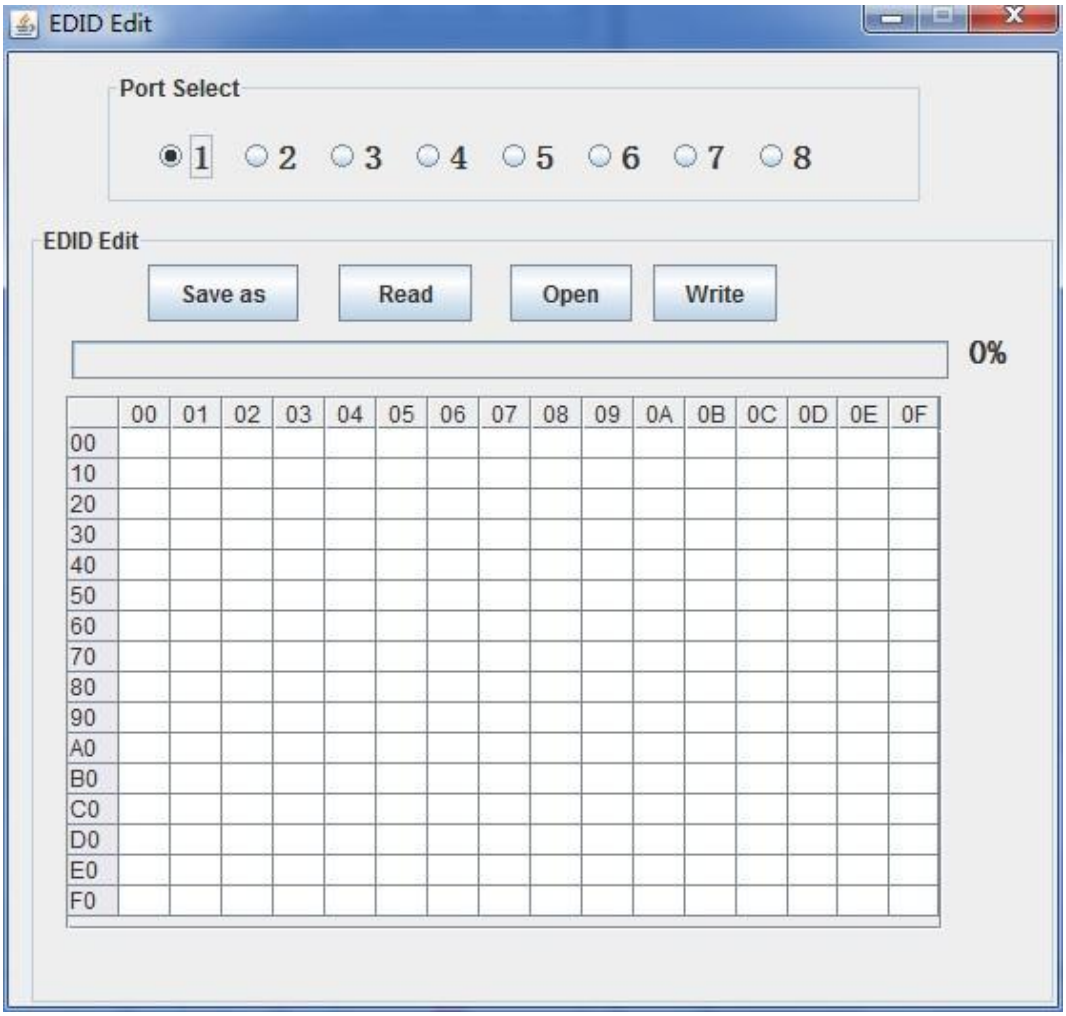
1. Run MT0808-VF1 SETUP software; choose the active COM port and click “Connect “button. The windows shown is as below



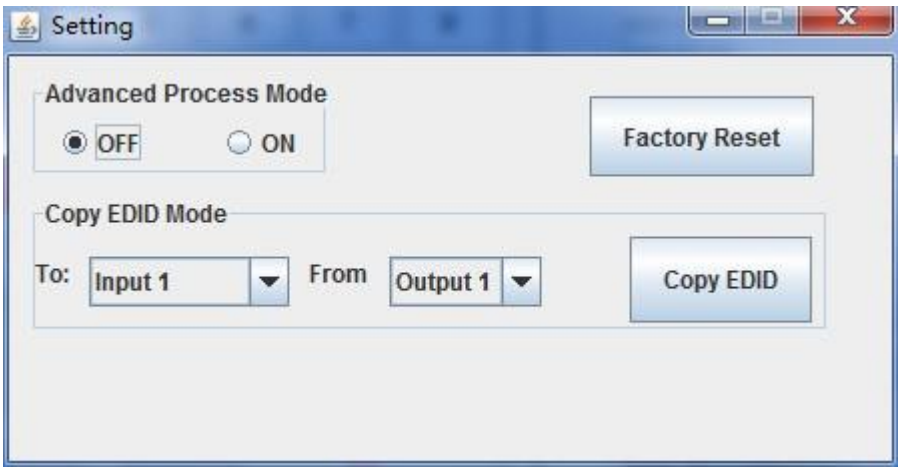
2. Click “IR Matrix” button to enter the widows below. The IR can be routed from the IR RX’s of the matrix to the IR TX ‘s of the receivers via two modes: a) the IR input buttons with each HDBT out; b) All selection can specific IR inputs to all HDBT OUT’s.



3. Click “EDID Edit” button to enter the windows below.



4. Click “Setting” button to enter the windows below.



Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

Warranty Policy

Aclass Technology products are warranted against defects in material and workmanship for two years from the date of shipment. During the warranty period, Aclass Technology will, at its option, repair or replace products that prove to be defective. Repairs are warranted for the remainder of the original warranty or a 90 day extended warranty, whichever is longer.
For equipment under warranty, the owner is responsible for freight to Aclass Technology and all related customs, taxes, tariffs, insurance, etc. Aclass Technology is responsible for the freight charges only for return of the equipment from the factory to the owner. Aclass Technology will return the equipment by the same method (i.e., Air, Express, Surface) as the equipment was sent to Aclass Technology.
All equipment returned for warranty repair must have a valid RMA number issued prior to return and be marked clearly on the return packaging. Aclass Technology strongly recommends all equipment be returned in its original packaging.
Aclass Technology's obligations under this warranty are limited to repair or replacement of failed parts, and the return shipment to the buyer of the repaired or replaced parts.

Limitations of Warranty

The warranty does not apply to any part of a product that has been installed, altered, repaired, or misused in any way that, in the opinion of Aclass Technology, would affect the reliability or detracts from the performance of any part of the product, or is damaged as the result of use in a way or with equipment that had not been previously approved by Aclass Technology.
The warranty does not apply to any product or parts thereof where the serial number or the serial number of any of its parts has been altered, defaced, or removed.
The warranty does not cover damage or loss incurred in transportation of the product.
The warranty does not cover replacement or repair necessitated by loss or damage from any cause beyond the control of Aclass Technology, such as lightning or other natural and weather related events or wartime environments.
The warranty does not cover any labour involved in the removal and or reinstallation of warranted equipment or parts on site, or any labor required to diagnose the necessity for repair or replacement.
The warranty excludes any responsibility by Aclass Technology for incidental or consequential damages arising from the use of the equipment or products, or for any inability to use them either separate from or in combination with any other equipment or products.
A fixed charge established for each product will be imposed for all equipment returned for warranty repair where Aclass Technology cannot identify the cause of the reported failure.

Exclusive Remedies

Aclass Technology’s warranty, as stated is in lieu of all other warranties, expressed, implied, or statutory, including those of merchantability and fitness for a particular purpose. The buyer shall pass on to any purchaser, lessee, or other user of Aclass Technology’s products, the aforementioned warranty, and shall indemnify and hold harmless Aclass Technology from any claims or liability of such purchaser, lessee, or user based upon allegations that the buyer, its agents, or employees have made additional warranties or representations as to product preference or use.
The remedies provided herein are the buyer’s sole and exclusive remedies. Aclass Technology shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

RMA Policy

When returning product to Aclass Technology for any reason, the customer should fill out the official RMA form to obtain a RMA number. Without the permission or approval, Aclass Technology will be no responsible for any return.This can be initiated by emailing or calling your related sales.
All requests are processed within 48 hours.

Standard Replacement

For customers that agree to return defective product to Aclass Technology first, a Standard Replacement option is available.

An RMA number must first be issued by sales. This RMA number will need to be referenced on the outside of the return shipment.

Upon receipt of the defective product, Aclass Technology will, at its discretion, either repair or replace the product and ship it out in the most expeditious manner possible. Subject to availability, the replacement product will be shipped on the business day following receipt of the defective product.

In the event the product returned to Aclass Technology has been discontinued (i.e. the product is no longer being manufactured by Aclass Technology but is still under warranty), Aclass Technology will, at its discretion, either repair or replace with recertified product.

Once you have obtained an RMA number

After obtaining an RMA number from Aclass Technology, you must send the product - freight prepaid - to Aclass Technology Technology Co., Ltd. The Aclass Technology RMA number must be prominently displayed on the outside of your package. If you send your product to Aclass Technology without the RMA number prominently displayed on the outside of the package, it will be returned to you unopened.

Please use a shipping company that can demonstrate proof of delivery. Aclass Technology does not accept responsibility for any lost shipments unless proof of delivery to Aclass Technology is provided.

Please note:

Product shipped to Aclass Technology must be properly packaged to prevent loss or damage in transit.

Shipping your RMA to Aclass Technology using regular mailing envelopes is not acceptable, as they do not protect the product from damage during shipping.

Aclass Technology will not repair or replace a module that is shipped in such a way that the product is not properly protected.

Aclass Technology will not accept any product that has been damaged as a result of accident, abuse, misuse, natural or personal disaster, or any unauthorized disassemble, repair or modification.